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Generalization for *The National Map* with emphasis on the NHD

Larry Stanislawski, Science Applications International Corporation (SAIC)
Mike Starbuck, U.S. Geological Survey, Mid-Continent Mapping Center
Michael P. Finn, U.S. Geological Survey, Mid-Continent Mapping Center
E. Lynn Usery, U.S. Geological Survey, Mid-Continent Mapping Center
1400 Independence Road, Rolla MO 65401; 573-308-3914

The National Map (TNM), being developed by the United States Geological Survey (USGS), is created from many data sources and Web Map Services (WMS) owned by many organizations. *TNM* data sources are stored electronically at various scales and resolutions. Consequently, when data are extracted from several WMS and horizontally integrated in geospatial data applications, the differences between data sources become apparent. The ability to render one or more scales of *TNM* data into an appropriate, or functionally equivalent, representation at a user-specified scale could substantially enhance analysis capabilities of these data. This paper describes ongoing research by the USGS into automated generalization approaches that address this problem, focusing on the National Hydrography Dataset (NHD) layer of *TNM*. The NHD provides vector representations of surface-water features depicted at medium, high, and local resolutions, with only medium resolution currently available nationwide.